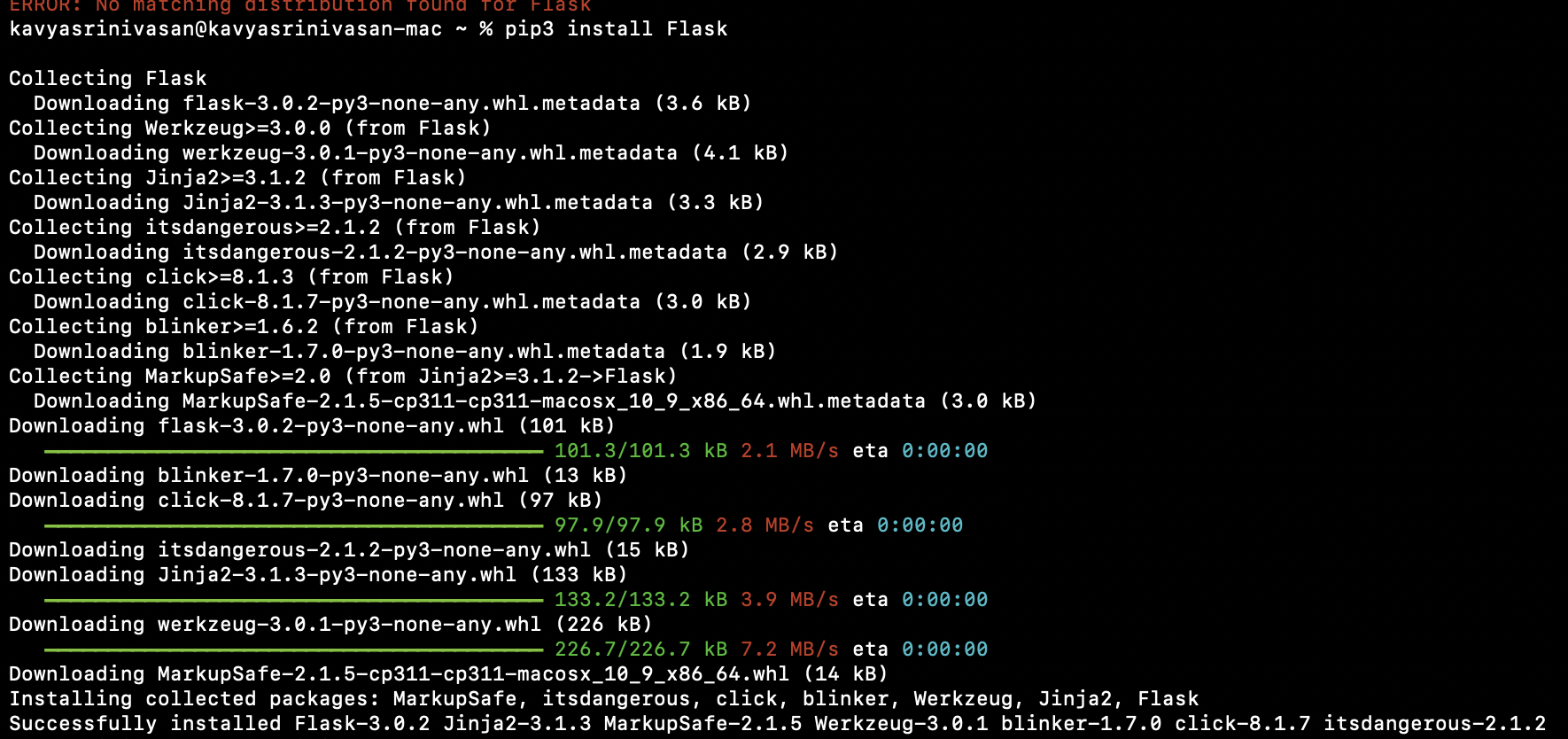
Task 1

Setup a project repository in your local system, and initialize the repo using git. The project can include a simple Web application or a Microservice, developed using any programming language of your choice.

Install Flask:

Command : pip install Flask



Create the Flask Application:

Create a new Python file named app.py with the following content:



from flask import Flask

# Create a Flask application

app = Flask(\_\_name\_\_)

# Define a route for the homepage

@app.route('/')

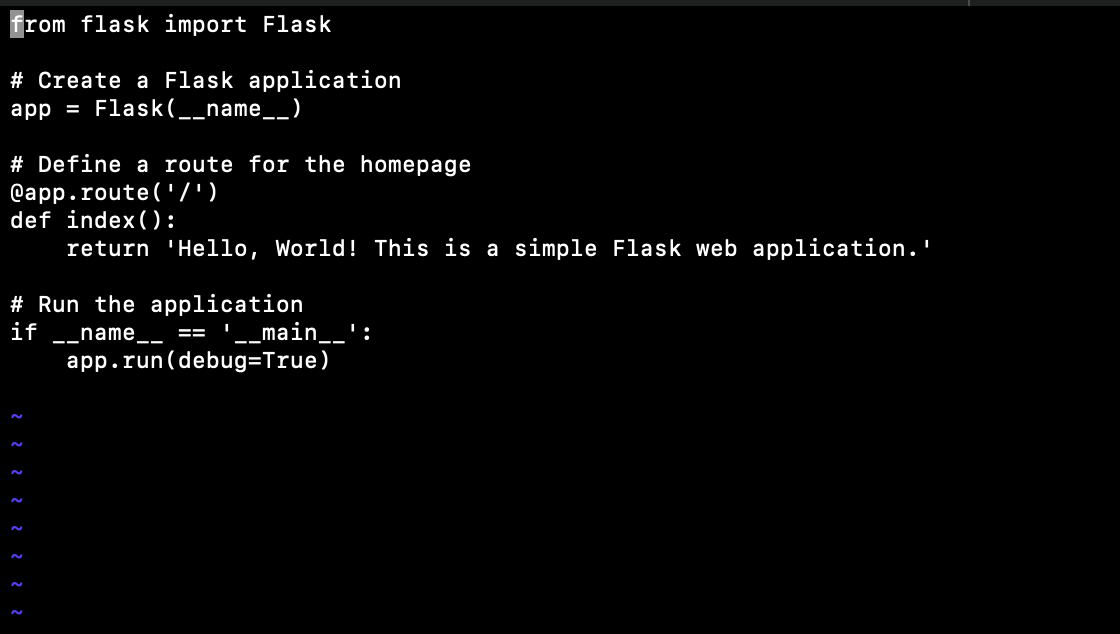
def index():

return 'Hello, World! This is a simple Flask web application.'

# Run the application

if \_\_name\_\_ == '\_\_main\_\_':

app.run(debug=True)

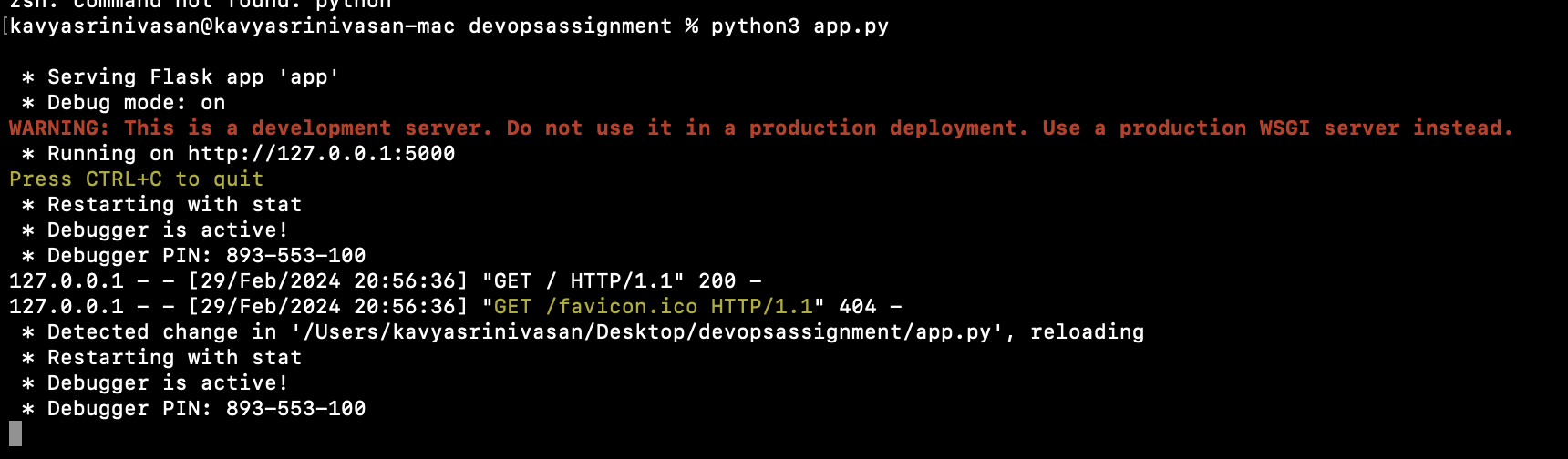


Run the Application:

Open terminal or command prompt, navigate to the directory containing app.py, and run the following command:

python app.py

This will start the Flask development server, and your application will be accessible at http://127.0.0.1:5000/ or <http://localhost:5000/>.



Access the Application:

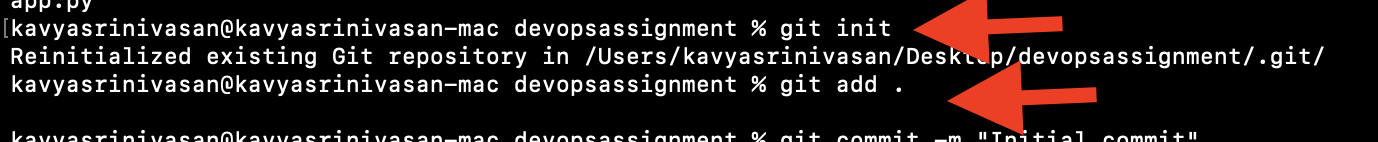
Open a web browser and navigate to http://127.0.0.1:5000/ or http://localhost:5000/. The greeting message will be displayed in the browser.



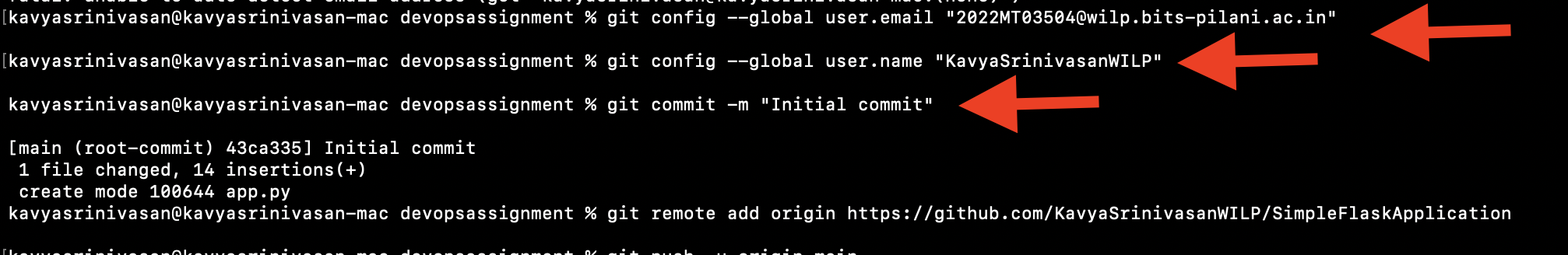
Task 2

b. Demonstrate the following git commands on the repo: init, status, add, log, commit, branch, switch, merge, stash, reset and diff.

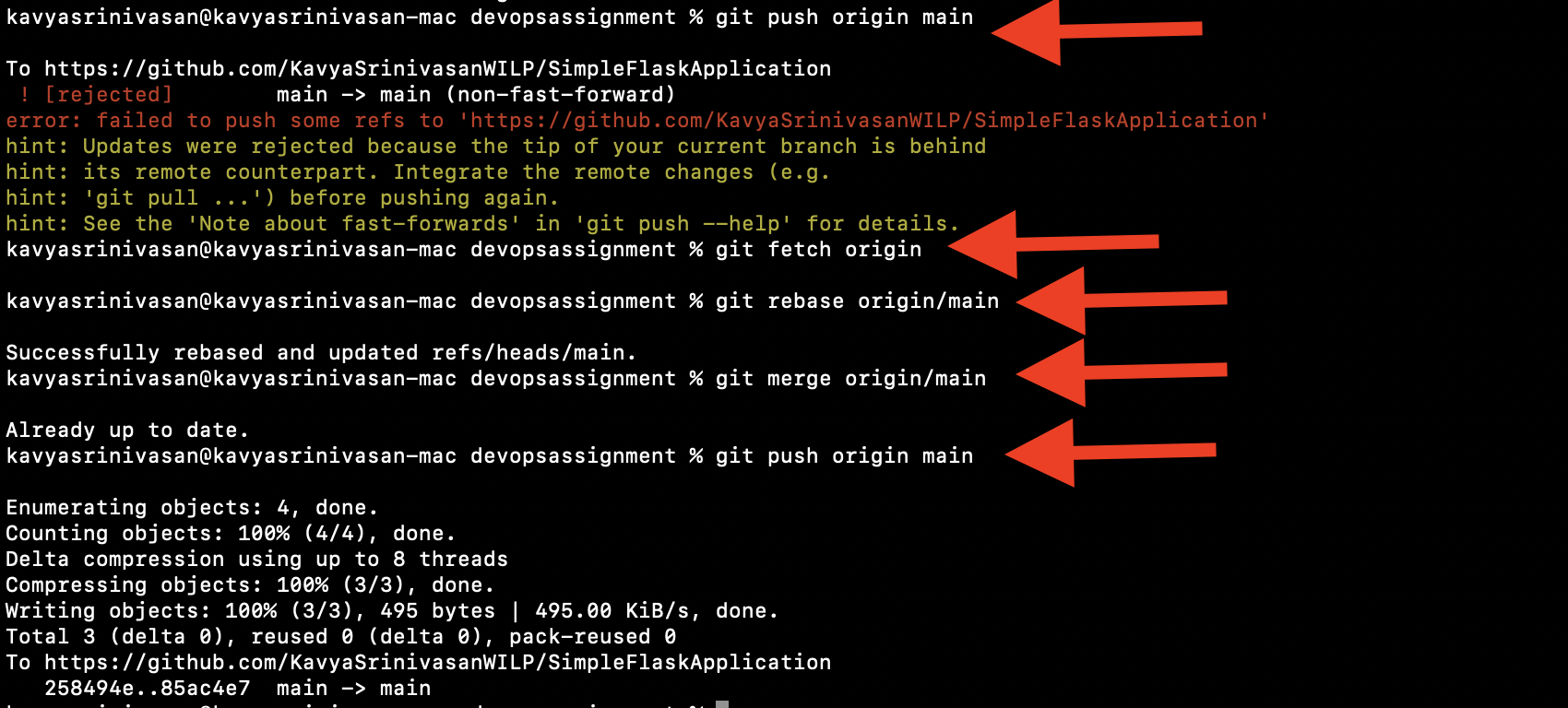
Git initialization on local directory



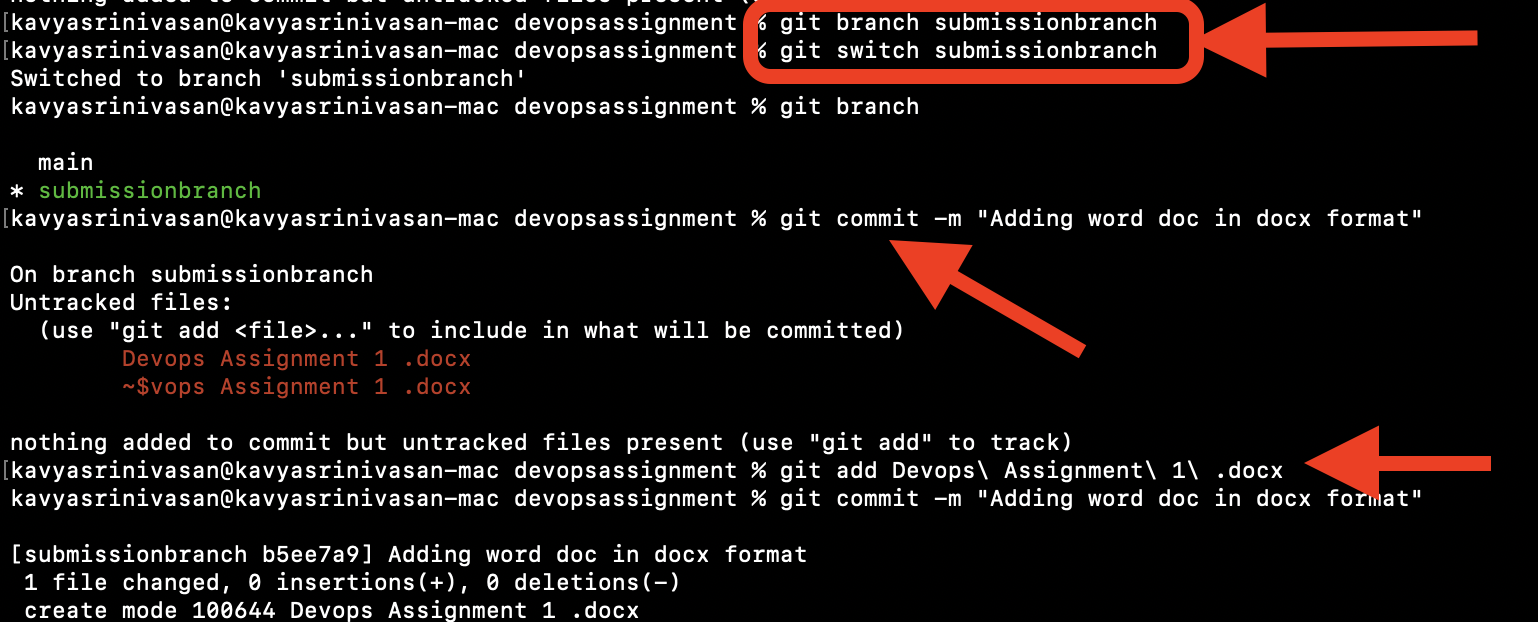
Github repo configuration

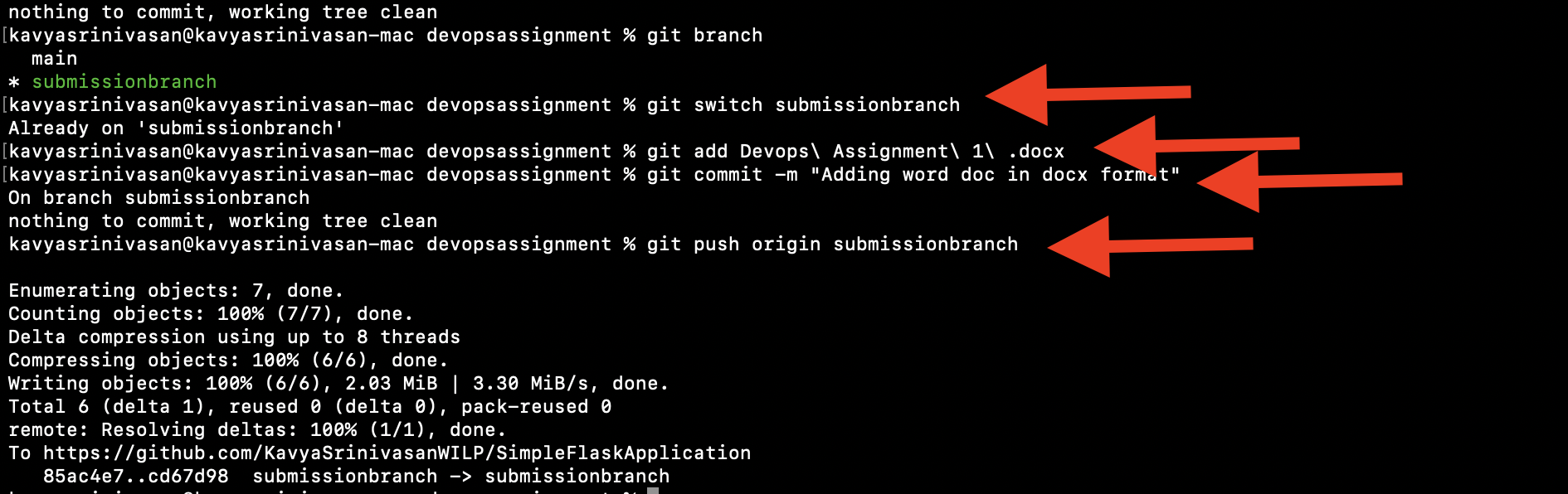


Push local changes to github

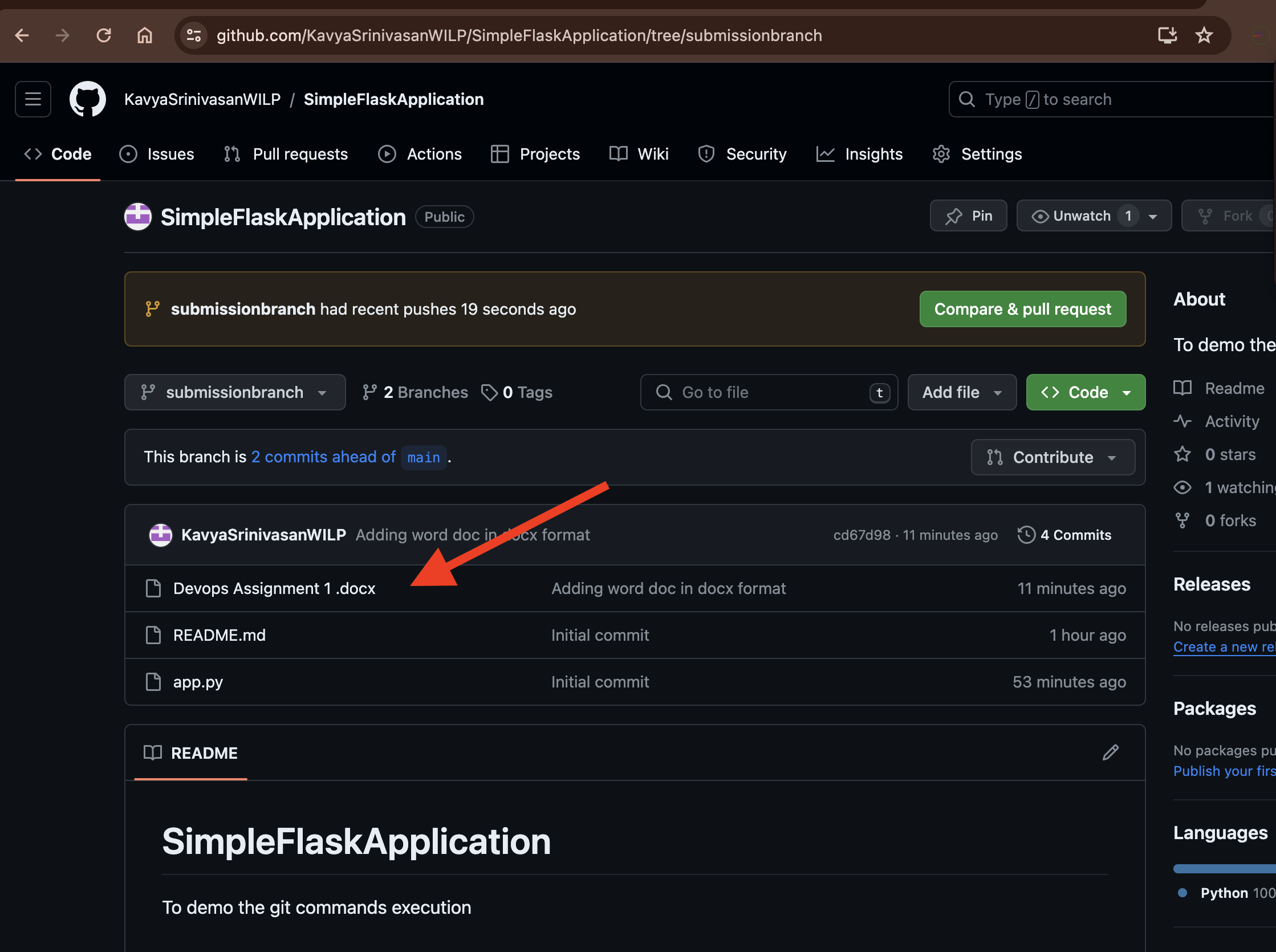


Branching and committing changes to branch



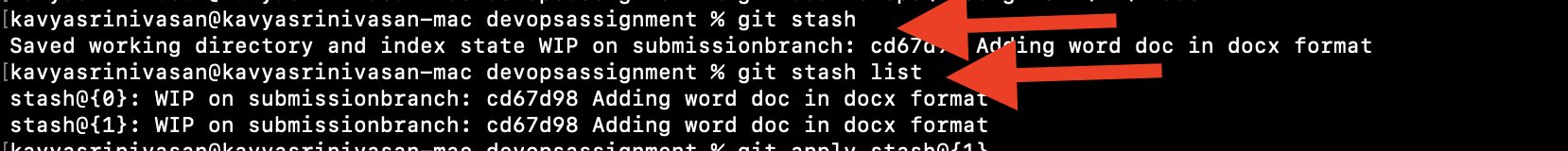


Seeing the new commits on the github UI



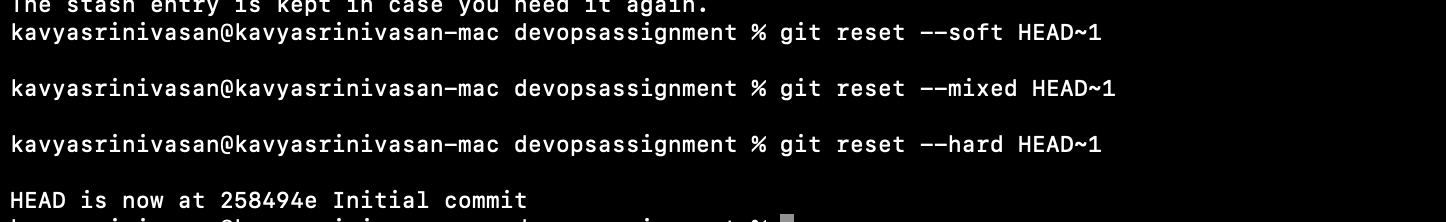
Git Stash:

The git stash command is used to temporarily store changes in working directory that are not yet ready to be committed. This is useful when we need to switch to another branch or address an urgent fix without committing your current changes.



Git Reset:

The git reset command is used to reset the state of working directory to a specific commit, either undoing commits or unstaging changes.



Git Diff:

The git diff command is used to display the differences between various Git objects, such as commits, branches, files, etc.

Git log :